

Title (en)

Semiconductor sensor and transmitter for use in tire condition monitoring apparatus

Title (de)

Halbleitersensor und Sender zur Reifenzustandsüberwachung

Title (fr)

Capteur à semi-conducteur et transmetteur pour un appareil de surveillance de l'état des pneumatiques

Publication

**EP 1429130 B1 20060118 (EN)**

Application

**EP 03025348 A 20031104**

Priority

JP 2002358174 A 20021210

Abstract (en)

[origin: US2004085078A1] A compact and light semiconductor sensor for detecting pressure and acceleration. A pressure sensor is formed on a first surface of an intermediate plate. An acceleration sensor is formed on a second surface of the intermediate plate. A first plate having a diaphragm is bonded to the intermediate plate to define a hermetic chamber of the pressure sensor. A second plate is bonded to the second surface of the intermediate plate. A spring support supports the mass in a manner relatively movable with respect to the second plate.

IPC 8 full level

**B60C 23/04** (2006.01); **B60C 23/20** (2006.01); **G01L 9/00** (2006.01); **G01L 17/00** (2006.01); **G01L 19/00** (2006.01); **G01P 15/125** (2006.01); **H01L 29/84** (2006.01)

CPC (source: EP US)

**B60C 23/0408** (2013.01 - EP US); **B60C 23/0494** (2013.01 - EP US); **G01L 19/0092** (2013.01 - EP US)

Cited by

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Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**US 2004085078 A1 20040506**; **US 6983650 B2 20060110**; DE 60303248 D1 20060406; DE 60303248 T2 20060914; EP 1429130 A1 20040616; EP 1429130 B1 20060118; JP 2004191128 A 20040708

DOCDB simple family (application)

**US 69434103 A 20031027**; DE 60303248 T 20031104; EP 03025348 A 20031104; JP 2002358174 A 20021210